



**2020**  
**ORC Club**  
**Certificate**

**Rating Office**  
**Hellenic Sailing Federation**  
**Offshore Committee**  
**Επιτροπή**  
**Ανοικτής Θαλάσσης**  
**Ελληνικής**  
**Ιστιοπλοϊκής Ομοσπονδίας**



**Certificate**  
 Number **00144**  
 Issued On **25/06/2020**  
 ORC Ref **03420000LEW**  
 VPP Ver. **2020 1.02**  
 Valid until **28/02/2021**

**Crew Weight**

Default	649kg
Maximum	420kg
Minimum*	315kg

*\*when applied by the NoR and SI*  
 Non Manual Pwr **No**

**Special Scoring**

ToD	ToT
Non Spin GPH <b>674.4</b>	<b>0.8897</b>
Non Spin OSN <b>654.3</b>	<b>0.9170</b>

**Sails Limitations**

Headsails **1** Spinnakers **4**

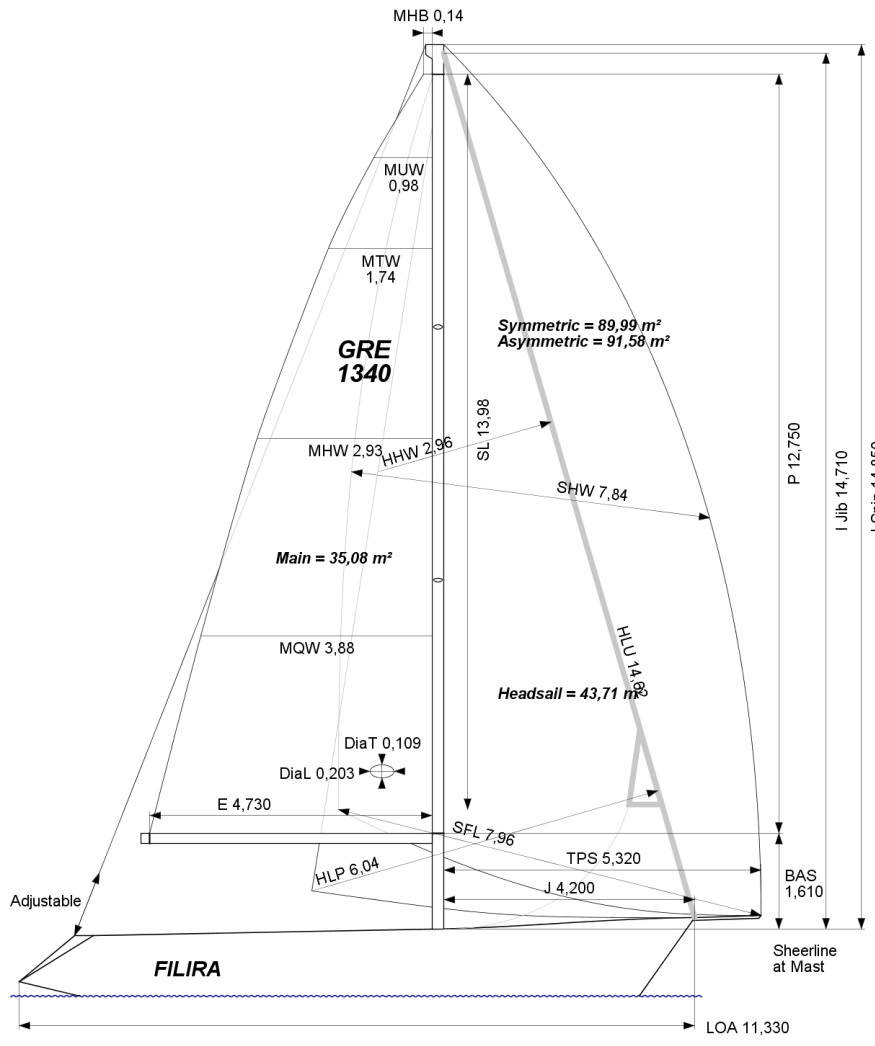
**Asymmetric on centerline**

**Spinnaker configuration**  
 Symmetric: **Yes** **89.99**  
 Asymmetric: **Yes** **91.58**  
 Flying H/S: **No**  
 Spin. Pole: **Yes**

**Class Division Length**  
**CDL = 8.811**

**Stability (Estimated)**  
 Limit Positive Stab.: **111.0°**  
 Stability Index: **113.2**

**Owner**



<b>BOAT</b> Name <b>FILIRA</b> Sail Nr <b>GRE-1340</b>		<b>GPH</b> <b>646.5</b>	<b>HULL</b> Data File <b>GR1340</b> LOA <b>11.330m</b> Offset File <b>GRS37.OFF</b> MB <b>3.780m</b> Displacement <b>7,123kg</b> Draft <b>2.052m</b>	
<b>CLASS</b> Class <b>Grand Soleil 37</b> Designer <b>J&amp;J</b> Builder <b>Del Pardo</b> Series <b>01/1997</b> Age Date <b>01/1999</b> Age Allowance <b>0.487%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.317%</b> Plan Review Construction <b>Solid</b> Fiber Rigging <b>No</b> Aramid Core <b>No</b> Crew Arm Ex Carbon Rudder <b>No</b> Light Stanchions <b>No</b>		
<b>COMMENTS</b> ex "CARPE DIEM"		IMSL <b>9.656m</b> VCGD <b>0.090m</b> Sink <b>20.63kg/mm</b> RL <b>7.965m</b> VCGM <b>0.087m</b> WS <b>27.63m²</b> LSM0 <b>9.598m</b> Displacement/Length ratio <b>8.0560</b>		
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0.420</b> Type <b>Folding 3 blades</b> PBW <b>0.110</b> PIPA <b>0.0036</b>		<b>CENTERBOARD</b> <b>NA</b>		
<b>SCORING OPTIONS</b>				
	<b>COASTAL / LONG DISTANCE</b>	<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>628.3</b>	<b>700.6</b>		
Time on Time	<b>0.9550</b>	<b>0.9634</b>		
Triple Number	Low Medium High	Low Medium High		
Time on Distance	<b>741.9</b> <b>572.5</b> <b>511.4</b>	<b>956.9</b> <b>706.7</b> <b>610.5</b>		
Time on Time	<b>0.9098</b> <b>1.1790</b> <b>1.3199</b>	<b>0.7054</b> <b>0.9551</b> <b>1.1057</b>		

<b>BOAT</b>	
Name <b>FILIRA</b>	Sail Nr <b>GRE-1340</b>
File <b>GR1340</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>
Inner Stay <b>None Fitted</b>	Runners/Checkstays <b>0</b>
Carbon Mast <b>No</b>	Jib Furler <b>Yes</b>
Fiber Rigging <b>No</b>	Main Furler <b>No</b>
Non-Circular Rigging <b>No</b>	
Articulated Bowsprit <b>No</b>	
P <b>12.750</b>	E <b>4.730</b> MDT1 <b>0.109</b> MW
IG <b>14.710</b>	J <b>4.200</b> MDL1 <b>0.203</b> GO
ISP <b>14.850</b>	SFJ <b>0.000</b> MDT2 <b></b> BD
BAS <b>1.610</b>	SPL <b>4.290</b> MDL2 <b></b> MWT
FSD <b>-3.000</b>	TPS <b>5.320</b> TL <b>-3.000</b> MCG

<b>INCLINING TEST AND FREEBOARDS</b>	
Inclining Test <b>Club Estimated VCG</b>	
Flotation date <b>14/10/2008</b>	SG
FFM <b>FF 1.312</b>	SFFP <b>0.370</b>
FAM <b>FA 1.004</b>	SAFP <b>10.087</b>
LCF from stem on CL / on sheer	<b>6.176 / 6.451</b>
Maximum beam station from stem	<b>6.705</b>
RM Measured	<b>157.6kg-m</b>
RM Default	<b>153.0kg-m</b>
Limit of positive stability / Stab.Index	<b>111.0° / 113.2</b>
Freeboard at mast at 4.200	<b>1.125</b>



**2020**  
Measurements  
Datasheet

<b>MIZZEN RIG AND SAILS</b>	
N/A	

<b>PROPELLER</b>	
Installation <b>Strut</b>	PRD <b>0.420</b>
Type <b>Folding 3 blades</b>	PBW <b>0.110</b>
Twin Screw <b>No</b>	PIPA <b>0.0036</b>
ST1 <b>0.042</b>	ST3 <b>0.180</b> ST5 <b>0.310</b>
ST2 <b>0.180</b>	ST4 <b>0.112</b> EDL <b>2.422</b>

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<b>COMMENTS</b>	
ex "CARPE DIEM"	

<b>MOVABLE BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	

<b>SAILS INVENTORY</b>																
<b>MAINSAIL (1)</b>																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	0.14	0.98	1.74	2.93	3.88	35.08		19/03/2017	KAKITSIS	Pentex						
<b>HEADSAILS (3)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
4	0.09	0.77	1.42	2.96	4.49	6.04	14.62	144%	43.71		No		10/06/2020	QUANTUM	Unknow	Light Skin
2	0.05	0.68	1.35	2.76	4.20	5.67	13.93	135%	38.93	N	No		19/03/2017	KAKITSIS	Pentex	
3	0.05	0.47	0.94	1.96	3.05	4.17	13.45	99%	27.16		No		08/09/2010		Dacron	
<b>SYMMETRIC SPINNAKERS (1)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	14.30	14.30	14.30	7.61	7.32	90.00		23/06/2009		Unknown						
<b>ASYMMETRIC SPINNAKERS (2)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
2	15.16	12.79	13.98	7.84	7.96	91.59	asym		13/06/2020		Unknown					
1	14.37	12.00	13.19	7.62	8.04	84.65	asym		07/07/2013		Unknown					

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>FILIRA</b>	Certificate Number <b>00144</b>
Sail Nr <b>GRE-1340</b>	Issued On <b>25/06/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1085.4</b>	<b>907.5</b>	<b>806.0</b>	<b>748.2</b>	<b>724.7</b>	<b>714.4</b>	<b>714.9</b>
52°	<b>710.8</b>	<b>604.7</b>	<b>543.7</b>	<b>517.7</b>	<b>506.6</b>	<b>501.8</b>	<b>499.3</b>
60°	<b>672.9</b>	<b>574.8</b>	<b>525.8</b>	<b>504.8</b>	<b>493.7</b>	<b>488.3</b>	<b>484.7</b>
75°	<b>644.0</b>	<b>553.0</b>	<b>513.3</b>	<b>494.0</b>	<b>481.1</b>	<b>471.1</b>	<b>460.6</b>
90°	<b>648.2</b>	<b>553.7</b>	<b>507.2</b>	<b>485.4</b>	<b>475.5</b>	<b>462.8</b>	<b>441.3</b>
110°	<b>660.7</b>	<b>548.0</b>	<b>501.1</b>	<b>477.7</b>	<b>458.2</b>	<b>440.7</b>	<b>422.0</b>
120°	<b>680.4</b>	<b>562.6</b>	<b>507.4</b>	<b>481.7</b>	<b>461.0</b>	<b>440.9</b>	<b>408.1</b>
135°	<b>752.2</b>	<b>615.4</b>	<b>534.1</b>	<b>497.5</b>	<b>475.6</b>	<b>455.4</b>	<b>417.7</b>
150°	<b>883.9</b>	<b>704.9</b>	<b>600.1</b>	<b>532.2</b>	<b>498.7</b>	<b>477.9</b>	<b>440.1</b>
Run VMG	<b>1020.6</b>	<b>813.9</b>	<b>692.1</b>	<b>608.1</b>	<b>549.3</b>	<b>509.4</b>	<b>467.8</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1053.0</b>	<b>860.7</b>	<b>749.1</b>	<b>678.2</b>	<b>637.0</b>	<b>611.9</b>	<b>591.3</b>
Circular Random	<b>889.6</b>	<b>718.9</b>	<b>627.3</b>	<b>574.1</b>	<b>541.7</b>	<b>521.1</b>	<b>497.5</b>
Coastal / Long Distance	<b>1049.7</b>	<b>808.4</b>	<b>673.8</b>	<b>592.0</b>	<b>551.2</b>	<b>520.8</b>	<b>473.7</b>
Non Spinnaker	<b>940.2</b>	<b>754.5</b>	<b>653.6</b>	<b>594.2</b>	<b>557.7</b>	<b>534.5</b>	<b>507.3</b>

<b>Velocity Prediction in Knots for True Wind Speeds</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>42.8°</b>	<b>41.3°</b>	<b>41.3°</b>	<b>40.5°</b>	<b>39.8°</b>	<b>39.4°</b>	<b>39.4°</b>
Beat VMG	<b>3.32</b>	<b>3.97</b>	<b>4.47</b>	<b>4.81</b>	<b>4.97</b>	<b>5.04</b>	<b>5.04</b>
52°	<b>5.06</b>	<b>5.95</b>	<b>6.62</b>	<b>6.95</b>	<b>7.11</b>	<b>7.17</b>	<b>7.21</b>
60°	<b>5.35</b>	<b>6.26</b>	<b>6.85</b>	<b>7.13</b>	<b>7.29</b>	<b>7.37</b>	<b>7.43</b>
75°	<b>5.59</b>	<b>6.51</b>	<b>7.01</b>	<b>7.29</b>	<b>7.48</b>	<b>7.64</b>	<b>7.82</b>
90°	<b>5.55</b>	<b>6.50</b>	<b>7.10</b>	<b>7.42</b>	<b>7.57</b>	<b>7.78</b>	<b>8.16</b>
110°	<b>5.45</b>	<b>6.57</b>	<b>7.18</b>	<b>7.54</b>	<b>7.86</b>	<b>8.17</b>	<b>8.53</b>
120°	<b>5.29</b>	<b>6.40</b>	<b>7.10</b>	<b>7.47</b>	<b>7.81</b>	<b>8.17</b>	<b>8.82</b>
135°	<b>4.79</b>	<b>5.85</b>	<b>6.74</b>	<b>7.24</b>	<b>7.57</b>	<b>7.91</b>	<b>8.62</b>
150°	<b>4.07</b>	<b>5.11</b>	<b>6.00</b>	<b>6.76</b>	<b>7.22</b>	<b>7.53</b>	<b>8.18</b>
Run VMG	<b>3.53</b>	<b>4.42</b>	<b>5.20</b>	<b>5.92</b>	<b>6.55</b>	<b>7.07</b>	<b>7.70</b>
Gybe Angles	<b>145.5°</b>	<b>150.5°</b>	<b>152.0°</b>	<b>156.0°</b>	<b>174.0°</b>	<b>180.0°</b>	<b>180.0°</b>